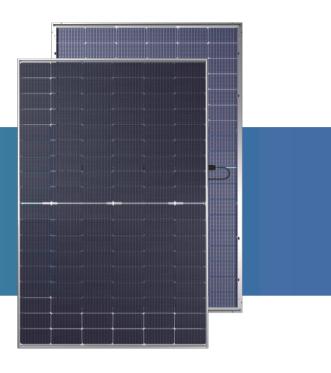
BiDrive Max Series TSBHM-108HVG 400-410

Ultra High Efficiency Bifacial Mono PERC Half-cell Solar Module (182)

ABOUT BEYONDSUN

Founded in 2008, Beyondsun is the world's leading PV manufacturer and one-stop solution provider. With multiple manufacturing bases and more than 8 branches around the world, our business covers cells, modules, aluminum frame and PV projects. With its advantages of continuous technological innovation, strong financial performance, and well-established global sales and service networks, Beyondsun has been highly recognized by its global partners. Until now, Beyondsun has distributed more than 8 GW PV products to over 30 countries all over the world. We are committed to collaborate with our partners in driving renewable energy together.





ULTRA HIGH MODULE EFFICIENCY

More power output with 182 MBB mono PERC half-cut cell

MORE ENERGY YIELD

Bifacial cell, additional 5%-30% more energy yield from rear side



LOWER OPERATING TEMPERATURE, MORE RELIABLE

Lower operating temperature and hot spot temperature during the sunny day, making the module prevail during the sunny days



BETTER SHADING TOLERANCE

Thanks to paralleling circuit design, more power generated under shading condition and during morning & evening time



BETTER MICRO CRACK RESISTANCE

Minimize the impact by micro crack by limiting cell damage and potentially extending area by half-cut module architecture

1500V SYSTEM VOLTAGE

Approved IEC1500Vdc system voltage, saving on BoS cost

THE IDEAL SOLUTION FOR





Commercial / industrial rooftop projects

QUALIFICATIONS & CERTIFICATES

- IEC 61215 / IEC 61730
- ISO 9001: Quality Management System
- ISO 14001: Environment Management System
- ISO 45001: Occupational Health and Safety

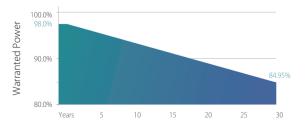


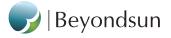
INDUSTRY LEADING WARRANTY

(30-Year) Linear Performance Warranty

12-Year Product Material & Workmanship Warranty







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BiDrive Max Series TSBHM-108HVG 400-410

ELECTRICAL PARAMETERS

Module Type	TSBHM400-108HVG		TSBHM405-108HVG		TSBHM410-108HVG	
Test Condition	STC	NMOT	STC	NMOT	STC	NMOT
Max. Power Output Pmax (W)	400	300	405	304	410	308
Power Tolerance	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%
Max. Power Voltage Vmp (V)	31.06	28.90	31.21	29.04	31.35	29.20
Max. Power Current Imp (A)	12.88	10.39	12.98	10.47	13.08	10.55
Open Circuit Voltage Voc (V)	36.83	35.01	36.98	35.16	37.12	35.29
Short Circuit Current Isc (A)	13.76	11.09	13.86	11.18	13.96	11.26
Module Efficiency (%)	20.46%		20.72%		20.97%	

*STC (Standard Test Condition): Irradiance 1000W/m², Cell Temperature 25 °C, Air Mass 1.5

*NMOT (Nominal Module Operating Temperature), Irradiance of 800W/ m², Spectrum AM 1.5, Ambient Temperature 20°C, Wind Speed 1m/s

REAR SIDE POWER GAIN

5%		420	425	431
	Module Efficiency STC (%)	21.48%	21.75%	22.02%
15%	Maximuml Power (Pmax)	460	466	472
	Module Efficiency STC (%)	23.53%	23.82%	24.12%
		500	506	513
	Module Efficiency STC (%)	25.58%	25.89%	26.21%

TEMPERATURE COEFFICIENTS

Temperature Coefficients of Pmp	-0.36%/°C
Temperature Coefficients of Voc	-0.29%/°C
Temperature Coefficients of Isc	+0.048 %/°C
NMOT	42°C±3°C

MECHANICAL PARAMETERS

Cell Type	Mono, 182x91mm
Cell Arrangement	108pcs (2×(6×10))
Dimension (L×W×H)	1724×1134×30mm
Weight	25kg
Front Cover	Dual glass 2.0mm coated tempered glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 bypass diodes
Cable	4mm ² , +400mm, -300mm, or customizable
Connector	PV Connector

OPERATING PARAMETERS

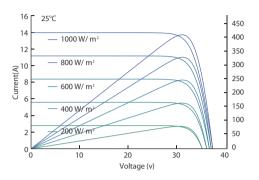
Maximum System Voltage(V)	1500(DC)
Operating Temperature(°C)	-40~+85
Max. Wind Load / Snow Load(Pa)	2400/5400
Max. Over Current(A)	25
Application Class	Class A
Fire Rating	Class C

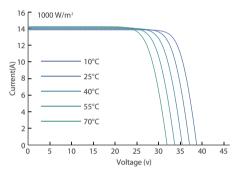
PACKAGE INFORMATION

Quantity / Pallet	36 pcs
Container 40'HQ	26 pallets,936pcs

*The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, Zhejiang Beyondsun Green Energy Technology Co., Ltd. reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.

I-V CURVES





TECHNICAL DRAWINGS

